

D6BZL2104

Reg.No.....

Name: .....

SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2024

(Regular/Improvement/Supplementary)

ZOOLOGY

GZOL6B13T: ETHOLOGY, EVOLUTION AND ZOOGEOGRAPHY

Time: 2 Hours

Maximum Marks: 60

**SECTION A: Answer the following questions. Each carries *two* marks.**

**(Ceiling 20 Marks)**

1. What is meant by Geological time scale?
2. Comment on the specific fauna of Oriental Realm.
3. Mention the contributions of Sir Alfred Russel Wallace.
4. Distinguish between hibernation and aestivation. Cite examples.
5. What is meant by Phyletic speciation?
6. Comment on dating of fossils.
7. What are vestigial organs? Give two examples.
8. List four factors that upset Hardy-Weinberg equilibrium.
9. Write notes on Circadian rhythm.
10. Comment on the features of *Parapithecus*.
11. What is the significance of Recapitulation theory?
12. Citing examples differentiate discontinuous distribution from isolated distribution.

**SECTION B: Answer the following questions. Each carries *five* marks.**

**(Ceiling 30 Marks)**

13. Review the morphological evidences of organic evolution.
14. Illustrate any three patterns and mechanisms in animal behaviour.
15. Categorize the biogeography of India into different zones based on physical features and fauna.
16. Write an account on the concept of Genetic drift.
17. Briefly discuss the classification and significance of pheromones.
18. Evaluate the role of limbic system of mammals in controlling behaviour.
19. Briefly discuss Urey-Miller experiment and comment on its significance.

**SECTION C: Answer any *one* question. Each carries *ten* marks.**

20. Explain the major postulates in the theory of evolution proposed by Darwin.
21. Discuss the phenomenon of Isolation and Isolating mechanisms.

**(1 x 10 = 10 Marks)**